

VESSEL 250P2100

VESSEL 250P2100 Ball Grip Tang-Thru Screwdriver Instruction Manual

Model: 250P2100

1. INTRODUCTION

Thank you for choosing the VESSEL 250P2100 Ball Grip Tang-Thru Screwdriver. This manual provides essential information for the safe and effective use, maintenance, and care of your new tool. Please read these instructions thoroughly before initial use and retain them for future reference.



Image 1.1: The VESSEL 250P2100 Ball Grip Tang-Thru Screwdriver, featuring its distinctive red ergonomic handle and metal shaft.

2. PRODUCT OVERVIEW AND FEATURES

The VESSEL 250P2100 is a high-quality Phillips head screwdriver designed for durability and user comfort. Key features include:

- **Ergonomic Ball Grip:** The handle is designed for comfortable use, reducing hand fatigue and allowing for various gripping positions during driving tasks.
- **Tang-Thru Shank:** Features a robust shank that extends through the handle to a large steel end cap, enabling light hammering applications for stubborn fasteners.
- **Ceramic Ball Insulation:** An integrated Zirconia ceramic component between the blade and the steel cap provides electrical insulation, enhancing safety.
- **Durable Hardened Blade:** The blade is fully hardened through optimal heat treatment, ensuring high wear-resistance and extended tool life.
- **Precision Tip and Finish:** Equipped with a high-precision black point tip for secure fastener engagement and an anti-corrosion chrome-plated blade for durability.

3. SAFETY INFORMATION

Always observe the following safety precautions when using this tool:

- Wear appropriate personal protective equipment, such as safety glasses, to protect against flying debris.
- Ensure the screwdriver tip matches the fastener head size and type to prevent stripping the fastener or damaging the tool.
- Do not use the screwdriver as a pry bar or chisel.
- Avoid using excessive force that could cause the screwdriver to slip and result in injury.
- Keep hands and fingers clear of the work area.
- The ceramic ball provides electrical insulation; however, always verify that power is disconnected before working on electrical components.
- Store the tool in a dry, secure place, out of reach of children.

4. SETUP

The VESSEL 250P2100 screwdriver is ready for use directly out of its packaging. No assembly is required.

1. **Inspection:** Before each use, visually inspect the screwdriver for any signs of damage, such as a bent shaft, worn tip, or cracked handle. Do not use a damaged tool.
2. **Selection:** Ensure the Phillips head tip (+2) is appropriate for the screw you intend to drive or remove.

5. OPERATING INSTRUCTIONS

Follow these steps for effective and safe operation:

1. **Grip:** Hold the screwdriver firmly by the ergonomic ball grip. The design allows for a comfortable and secure hold, facilitating torque application.
2. **Positioning:** Place the Phillips head tip squarely into the head of the screw. Ensure full engagement to prevent cam-out.
3. **Applying Pressure:** Apply firm, steady downward pressure on the handle while turning. This helps keep the tip engaged with the screw head.
4. **Turning:** Rotate the screwdriver clockwise to tighten screws or counter-clockwise to loosen them.
5. **Tang-Thru Feature (for stubborn fasteners):** For very tight or rusted screws, the tang-thru shank with the steel end cap allows for light hammering. Position the screwdriver tip in the screw head, apply downward pressure, and gently tap the steel end cap with a hammer to help break the screw free. *Use caution and moderate force to avoid damaging the screw or workpiece.*
6. **Electrical Insulation:** When working near electrical components, the ceramic ball provides an additional layer of insulation. However, always confirm that power is off before beginning work.

6. MAINTENANCE

Proper maintenance ensures the longevity and performance of your screwdriver:

- **Cleaning:** After each use, wipe the screwdriver clean with a dry cloth to remove dirt, grease, or debris. For stubborn grime, a damp cloth with mild soap can be used, followed by thorough drying.
- **Storage:** Store the screwdriver in a dry environment to prevent rust and corrosion. Keep it away from extreme

temperatures and direct sunlight.

- **Tip Condition:** Regularly check the tip for wear. A worn or rounded tip can lead to cam-out and damage to fasteners. Replace the screwdriver if the tip is significantly worn.

7. TROUBLESHOOTING

Common issues and their solutions:

- **Screwdriver slips from screw head (cam-out):**
 - Ensure the correct tip size is being used for the screw.
 - Apply more downward pressure while turning.
 - Check if the screw head is stripped or the screwdriver tip is worn.
- **Screw is too tight to turn:**
 - Utilize the tang-thru feature by gently tapping the steel end cap with a hammer while applying turning force.
 - Consider using a penetrating oil for rusted screws.

8. SPECIFICATIONS

Attribute	Value
Brand	VESSEL
Model Name	250P2100
Head Style	Phillips
Head Size	+2
Blade Length	100mm (4 inches)
Item Weight	0.13 Kilograms (4.6 ounces)
Handle Material	Plastic
Special Features	Ergonomic Ball Grip, Tang-Thru Shank, Ceramic Ball Insulation, Hardened Blade, Chrome Plated Blade
Recommended Uses	Electronics Item, Furniture Assembly, Home Improvement

9. WARRANTY INFORMATION

For specific warranty details regarding your VESSEL 250P2100 Ball Grip Tang-Thru Screwdriver, please refer to the warranty documentation provided with your purchase or visit the official VESSEL website. General warranties typically cover manufacturing defects under normal use conditions.

10. SUPPORT

If you require further assistance or have questions not covered in this manual, please contact VESSEL customer support through their official website or the retailer from whom you purchased the product. When contacting support, please have your product model number (250P2100) available.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question